



Special points of interest:

- *Hickory Hills p. 2*
- *Lake Avenue Streetscape p. 4*
- *Eighth Street Design p. 9*

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ENGINEERING DEPARTMENT

2018 ANNUAL REPORT

Engineering Department Overview

The work performed by the Engineering Department includes:

- Utility reviews in conjunction with land use permits, right-of-way permits, storm-water runoff control permits, and soil erosion permits
- Administration and inspection of right-of-way permits, stormwater runoff control permits, and soil erosion permits
- Motorized and non-motorized traffic counts and studies
- Engineering design of City infrastructure projects such as:
 - Street and Parking Lot Reconstruction and Resurfacing
 - Storm Water Quality, Sewer, and Water Systems
 - Bridge and Culvert Inspection, Construction, and Rehabilitation
 - City Building Construction, Rehabilitation, and Renovation
 - Sidewalk Improvements, Repair, and Infill
 - Bike Paths and Trails
 - City Park and Bayfront Improvements
- Construction engineering and site inspection
- Contract administration
- Development of City engineering reports and guidelines for engineering best practices
- Historic record keeping for City projects
 - GIS utility record keeping
 - Electronic and hard copies of as-builts
- Collaboration with numerous adjacent municipalities, advocacy groups, and private entities within the City limits
- Has representatives for numerous multi-jurisdictional committees, including:
 - Regional Bridge Council
 - Regional Transportation Planning and Traffic Assessment (TTCI)
 - North Region Pedestrian and Bicycle Committee (MDOT)
- Assists in several other aspects of the City, including:
 - Ordinance Compliance and Development
 - Economic Development Projects
 - Asset Management
 - Budgeted Capital Improvements
 - Grant Applications
 - Transportation Planning

**2018
Department
of the Year**

FEATURED PROJECTS

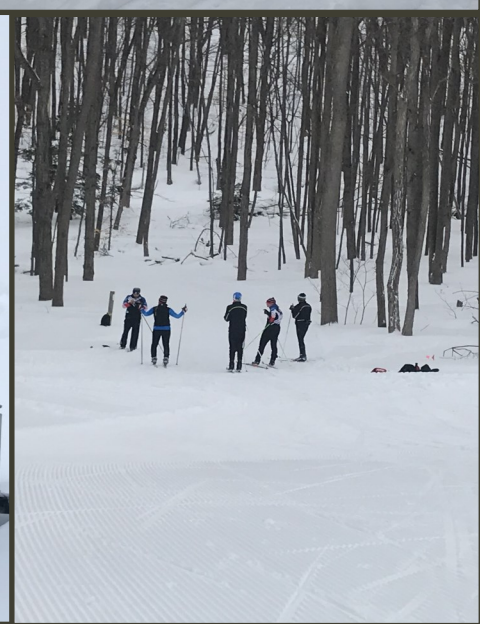
Hickory Hills Recreation Area

Hickory Hills Recreation Area improvements were completed following years of community visioning resulting in an adopted master plan for Hickory Hills. In conjunction with our community partner, Preserve Hickory, the City undertook improvements including a new lodge, site improvements including paved parking lot, landscaping, and a stormwater management system. Winter recreation improvements included Nordic trails, Alpine slopes, snowmaking, rope tow, lighting, and a conveyor lift. Summer recreation improvements included disc golf expansion, trails, an ADA inclusive trail, and similar activities that support year-round use of the park and facilities. The City constructed a new maintenance facility for the recreation area.



FEATURED PROJECTS

Hickory Hills Recreation Area



FEATURED PROJECTS

Lake Avenue Streetscape

The reconstruction of Lake Avenue and the addition of streetscapes has been a long planned project. Completed in November of 2018, Lake Avenue will serve the City of Traverse City. Lake Avenue was Phase III of the Eighth St. construction programming. The project included:

- Street reconstruction with intersection improvements at Eighth and Cass
- Raised crosswalks at Cass for a safer pedestrian experience
- Sidewalks on north and south side of street with street trees
- Amenities such as benches and bike racks
- Improved parking and increased capacity with reverse angle parking
- Upgrades and replacements to sanitary sewer, water, and stormwater



PROJECTS COMPLETED

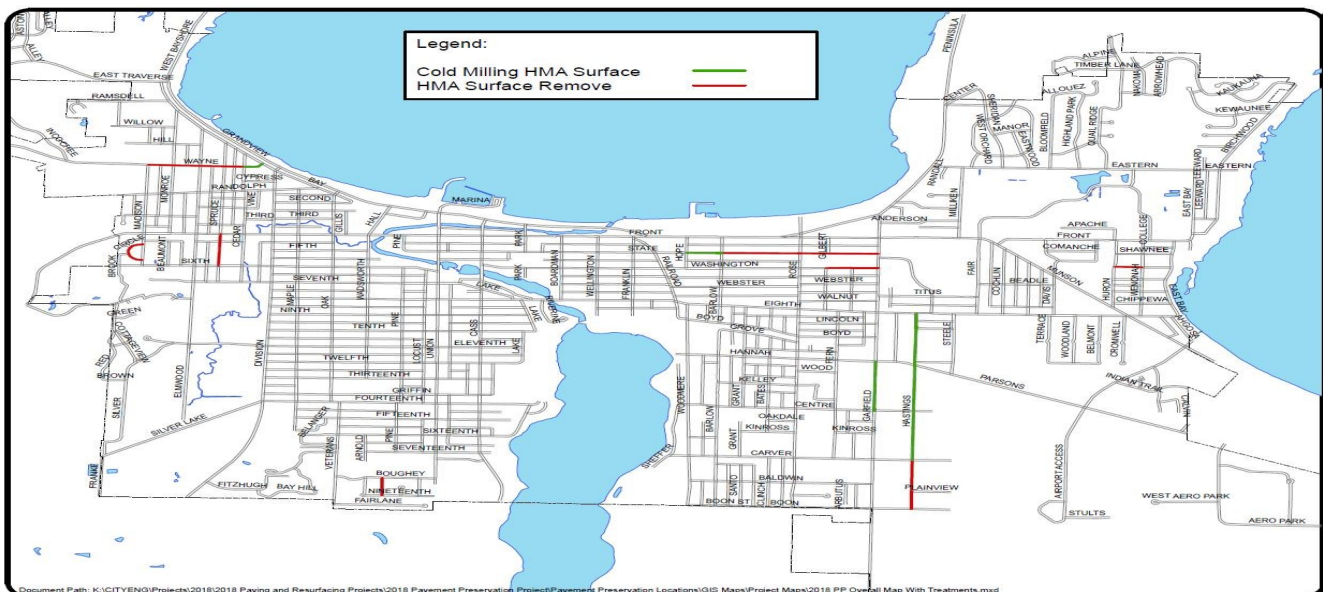
2018 Pavement Preservation Project

The 2018 Pavement Preservation project utilizes the City's portion of the county road millage funds to resurface streets that are rated in fair to poor condition and do not currently need underground utilities repaired. The focus of the project is primarily on renewing the asphalt wearing surface on streets that have reached the end of their asphalt life expectancy. In addition to city streets, the following projects were included within the project (not funded through county road millage): City parking Lot P was reconstructed (final construction Spring 2019), a small section of city parking lot K was resurfaced, and the alley North of 8th St. between Boardman Ave. and Railroad Ave. was reconstructed. The project included:

- 23,452 Syd pavement surface milled
- 35,867 Syd pavement removed
- 7,248 Tons asphalt placed
- Upgraded Pavement Markings



08/01/2018



PROJECTS COMPLETED

Clancy Park

Clancy Park is walkable distance from hundreds of homes, two large school campuses and the northern terminus of the TART in Town bike trail. The project included:

- Approximately 1,310 feet of concrete walkway
- Improvements to the existing natural area
 - Accessible mulched paths
 - Log seating
 - Removal of invasive plants
- 3 additional benches with accessible companion seating
- Small pavilion with an accessible picnic table and bike racks
- New basketball court and hoop
- New playground equipment and protective surfacing
 - Swings (4) for all ages and abilities
 - Universally accessible jumper/climber
 - Poured-in-place rubberized porous protective surfacing surrounded by concrete walkways
- New natural play features
 - Gentle hills with boulders
- Refurbished existing merry-go-round
- Other site amenities including an accessible water fountain with water bottle filling station and dog dish, dog waste station, and trash containers
- Funding from grants and the Brown Bridge Trust Fund



PROJECTS COMPLETED

8th Street Alley

Reconstruction of the alley north of Eighth St. between Boardman Avenue and Railroad Avenue (3 blocks) was Phase II of the Eighth St. construction programming. The project included

- Removing and replacing the existing pavement
- Installing traffic calming measures
- New concrete gutter
- New storm sewer, including catchbasins, manholes, and four (4) drywells

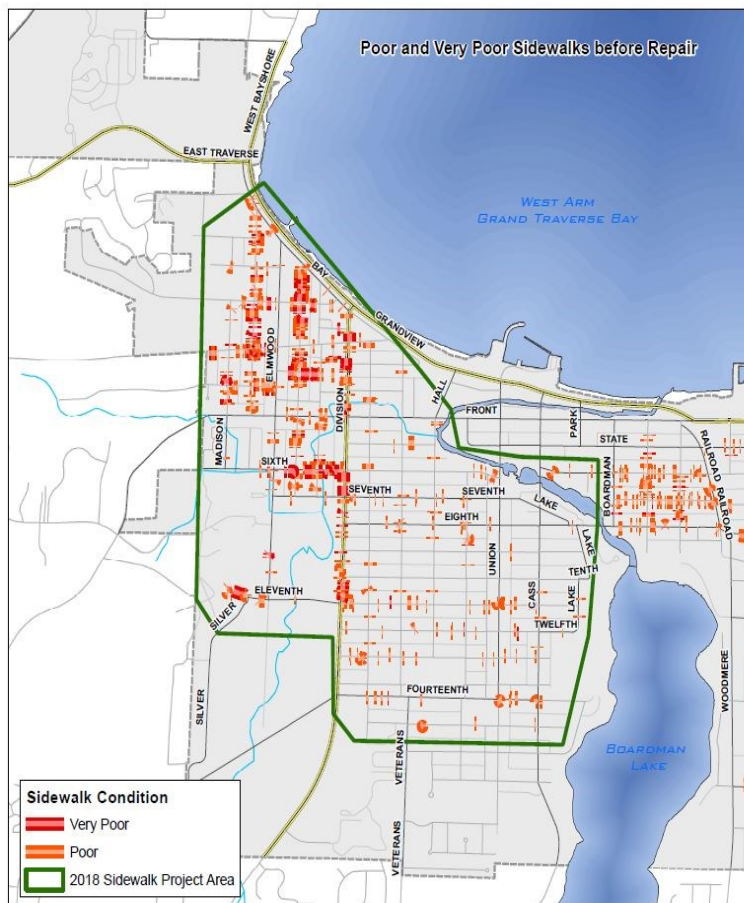


PROJECTS COMPLETED

2018 Sidewalk Preservation

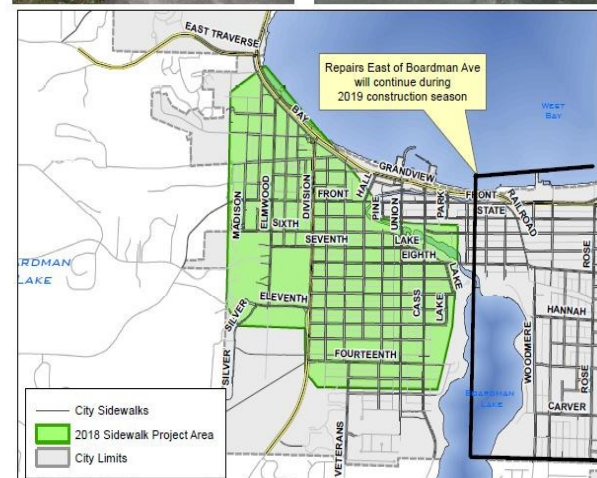
The 2018 Sidewalk Preservation project focused on repairing existing sidewalks throughout the City that were rated poor and very poor. During the 2018 construction season, the western half of the City's sidewalks (west of Boardman Ave.) were repaired. The project will continue during the 2019 construction season on the eastern half of the City's sidewalks rated in poor and very poor condition. The project included:

- 61,535 square feet of sidewalk was repaired - Estimated 11,616 lineal feet or 2.2 miles of sidewalk replaced



2018 Sidewalk Preservation Project*:
Repairing sidewalks rated poor and very poor West of Boardman Ave.
From June to October the following was completed:
61,535 square feet = an estimated 11,616 lineal feet or
2.2 miles of sidewalk replaced
Cost: \$460,000

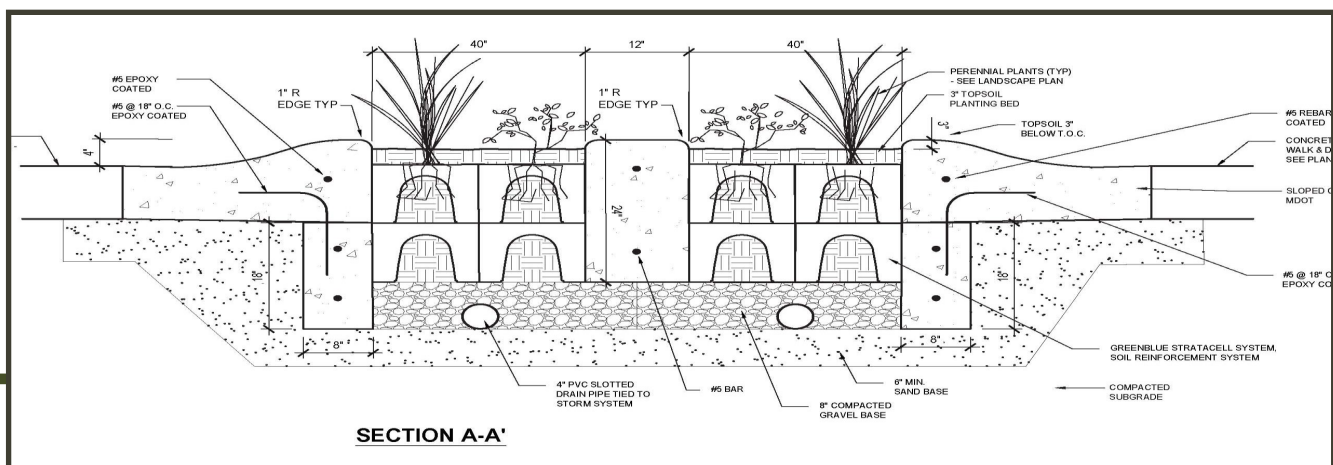
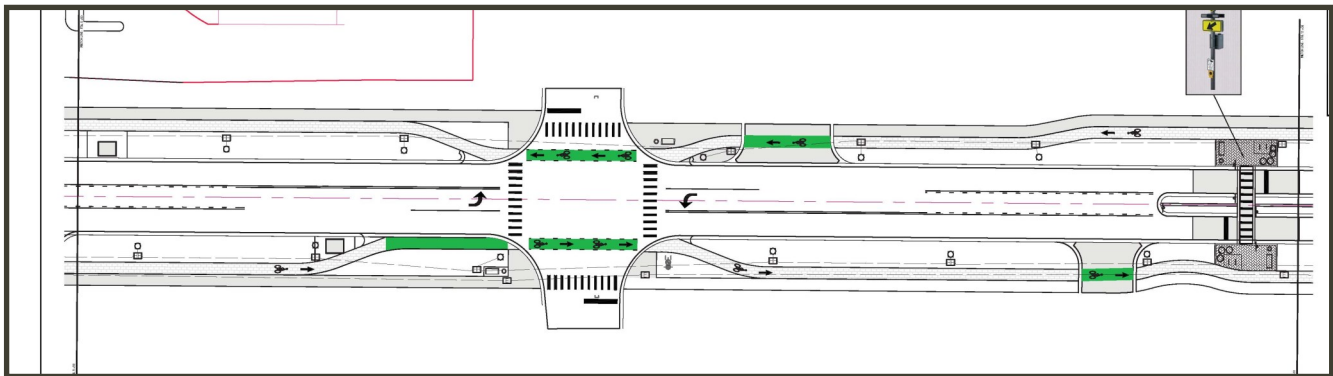
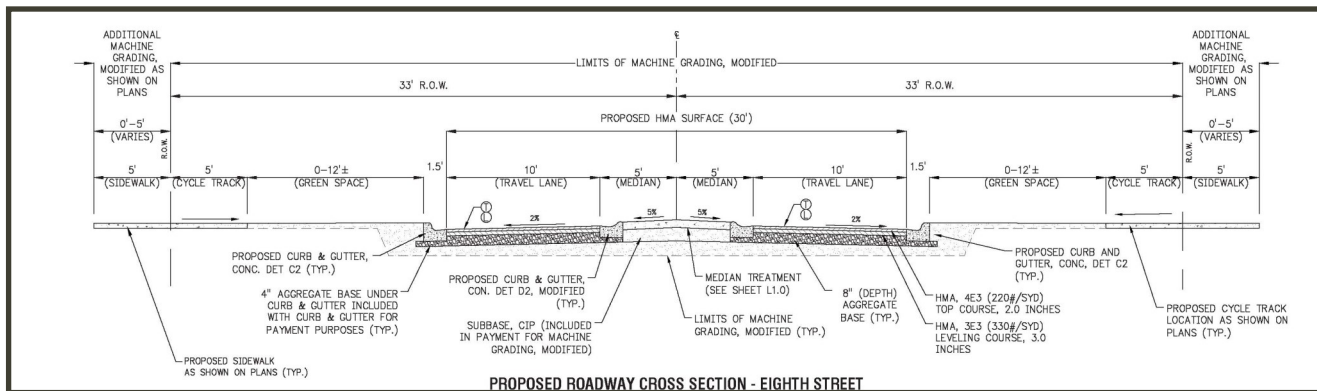
*Project will continue during 2019 construction season



FUTURE PROJECTS: FEATURED

Eighth Street Design

Eighth Street is a mix of both walkable development that channels downtown and auto-oriented development with large parking lots—all on one of Traverse City's busiest streets. The street design for Eighth Street was approached through several methods including transportation planning and engineering, streetscape design, and codified form-based code street types. Construction will take place during the Summer of 2019.



OTHER FUTURE PROJECTS

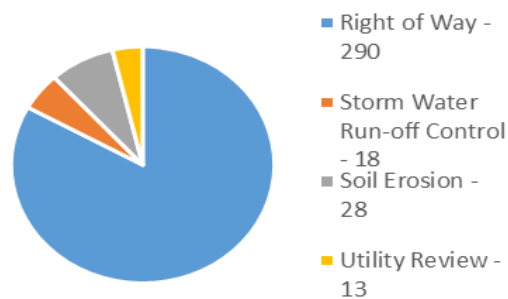
2019 Scheduled Projects

- ⇒ Barlow 4 Million Gallon Reservoir Rehabilitation
- ⇒ Park Street Bridge
- ⇒ S. Cass Street Bridge
- ⇒ W. Front Street Bridge
- ⇒ Eighth Street Bridge
- ⇒ 2019 Pavement Preservation
- ⇒ Kids Creek Crossing
- ⇒ US-31 Watermain Replacement
- ⇒ Water Treatment Plant Structural Repair
- ⇒ Fire Station #2 Cold Storage Building
- ⇒ Safe Routes to School
- ⇒ 2019 Sidewalk Preservation
- ⇒ Randolph Street

Traffic data from 2018:

- Average Daily Traffic Count Locations: 123
- Speed Studies: 17
- Vehicle Class Studies (including bicyclists): 11
- Pedestrian Safety Observations: 10
- Stop Warrant Studies: 11
- Signal Warrant Studies: 4
- Roundabout Study
- Trip Timing Study

Permits



CONTACT INFORMATION:

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Engineering Technician

Brandon Glowacki
Engineering Aide

Missy Luick
Engineering and Plan-
ning Assistant (thru-
November

Kaitlyn Aldrich
Engineering Assistant

Additional 2018 Projects

Facility Security Project: Vehicle access control installations at Department of Public Services, Water Treatment Plant, and Wastewater Treatment Plant facilities, including vehicle access management upgrades, rust prevention, and remove unused fencing.



Roof Projects: Replacement of roofing of several buildings owned by the City at the WTP, Bryant Park Bathhouse, East Bay Park Bathhouse, Hull Park Pavilion, and the Marina Storage Building.



Slabtown Corner Dog Park Pickleball Court: Conversion of two (2) outdoor tennis courts into six (6) outdoor pickleball courts. A Health Department of Northwest Michigan grant in the amount of \$7,000 was awarded in 2018 and \$10,000 in donations was raised for the project.

